

**WEST**

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L2: Entry 142 of 143

File: DWPI

Mar 20, 1990

DERWENT-ACC-NO: 1990-131712

DERWENT-WEEK: 199017

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TITLE: Enteric coated capsule for oral admin. of e.g. insulin - comprises mixt. of drug and absorption promoter in capsule shell coated with acid-insol. film

INVENTOR: DAVIS, J D; RUBINSTEIN, A ; TOUITOU, E

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SCHERER CORP R P

SCHB

PRIORITY-DATA: 1985IT-0077186 (November 29, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4910021 A	March 20, 1990		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 4910021A	November 25, 1986	1986US-0934741	

INT-CL (IPC): A61K 9/64

ABSTRACTED-PUB-NO: US 4910021A

BASIC-ABSTRACT:

An orally administered capsule consists of a hard or soft capsule shell of the carbohydrate or gelatin type, having an enteric coating on it and contg. a pharmaceutical compsn. in it. The enteric coating comprises a film-forming compsn. which is insol. at pH below 7 but sol. wt. pH above 7. The pharmaceutical compsn. comprises (a) a peptide or protein active ingredient which is unsuited for absorption by any portion of the gastrointestinal tract in which the pH is below 7, and (b) an organic aromatic acid or its esters, amides or salts, for enhancing absorption of the active ingredient in the colon.

USE/ADVANTAGE - The capsule may be used e.g. for oral admi. of insulin to diabetic patients. The insulin is protected from proteolytic inactivation by digestive juices in the upper region of the gastro-intestinal tract but is released (and its absorption prompted) in the jejunum or esp. in the colon region. Other drugs which can be administered include gastrin, pentagastrin, calcitonin, human growth hormone, glucagon, adrenacorticotrophic hormone, luteinising hormone releasing hormone, enkephalin, oxytocin, parathyroid hormone, thyrotropic releasing hormone and vasopressin.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: ENTERAL COATING CAPSULE ORAL ADMINISTER INSULIN COMPRISE MIXTURE DRUG  
ABSORB PROMOTE CAPSULE SHELL COATING ACID INSOLUBLE FILM

DERWENT-CLASS: A96 B04 B07

CPI-CODES: A12-V01; B04-B02D; B04-B04A; B04-C01A; B04-C03B; B04-D01; B10-A09B;  
B10-C04B; B12-G06; B12-H05; B12-M11C;

## CHEMICAL-CODES:

## Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M431 M782 M903 R031 R051 V735 V751

Registry Numbers

1327U 0502U

## Chemical Indexing M1 \*02\*

Fragmentation Code

F012 F014 F423 F521 G010 G013 G100 H1 H100 H101

H181 H182 H4 H401 H441 H481 H8 J0 J011 J012

J1 J111 J171 J172 J3 J371 K0 K2 K224 L2

L250 M280 M311 M312 M313 M314 M315 M320 M321 M322

M331 M332 M333 M340 M342 M343 M349 M371 M381 M391

M392 M423 M431 M510 M520 M521 M530 M531 M540 M620

M782 M903 M904 M910 P816 R031 R051 V0 V621 V901

V902 V917 V922

Specific Compounds

01851M

Registry Numbers

1327U 0502U

## Chemical Indexing M1 \*03\*

Fragmentation Code

M423 M431 M782 M903 R031 R051 V624 V752 V901 V902

Registry Numbers

1327U 0502U

## Chemical Indexing M1 \*04\*

Fragmentation Code

F012 F423 G010 G013 G100 H1 H100 H101 H181 H182

H4 H401 H441 H8 J0 J011 J012 J1 J111 J171

J172 J3 J371 K0 K2 K224 L2 L250 M280 M311

M312 M313 M314 M320 M321 M322 M332 M342 M343 M349

M371 M381 M391 M392 M423 M431 M510 M520 M521 M530

M531 M540 M620 M782 M903 M904 R031 R051 V901 V902

V912 V922

Specific Compounds

06739M

Registry Numbers

1327U 0502U

## Chemical Indexing M2 \*05\*

Fragmentation Code

G011 G014 G015 G017 G100 H401 H402 H441 H442 H541

H602 H603 H604 H608 H641 H642 H685 J0 J011 J131

J171 J231 J331 M210 M211 M212 M213 M214 M215 M216

M220 M221 M222 M231 M232 M233 M240 M272 M280 M281

M282 M311 M320 M321 M342 M344 M353 M372 M391 M414

M431 M510 M520 M531 M540 M630 M782 M903 M904 R031

R051

Markush Compounds

199017-27701-M

Registry Numbers

1327U 0502U

## Chemical Indexing M2 \*06\*

## Fragmentation Code

G011 G014 G015 G100 H4 H401 H441 H541 H8 K0  
K4 K431 M210 M211 M272 M280 M281 M311 M320 M321  
M342 M373 M391 M414 M431 M510 M520 M531 M540 M630  
M782 M903 M904 R031 R051

## Markush Compounds

199017-27702-M

## Registry Numbers

1327U 0502U

## Chemical Indexing M6 \*07\*

## Fragmentation Code

M903 P816 R031 R051 R111 R280

## Registry Numbers

1327U 0502U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0271U; 0272U ; 1851U

## POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0013 0036 3002 0218 0224 0231 3152 0411 0412 0418 0419 0495 0496 3006 3007 0502  
0503 3013 0537 0538 1279 1306 1588 1986 1989 3206 2002 2014 2021 2318 2427 2437 2440 2507  
2511 2575 2585 2622 2726 2729 3273 2766

Multipunch Codes: 014 028 034 04- 040 05- 074 075 076 077 081 082 147 198 229 231 239 240 256  
259 27& 28& 31- 316 332 334 336 38- 398 431 44& 443 445 475 477 50& 525 532 537 551 560 561  
575 58- 583 589 59& 623 624 645 681 688 720 723

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-057832